

(12) UK Patent Application (19) GB (11) 2 180 648 (13) A

(43) Application published 1 Apr 1987

(21) Application No 8621685

(22) Date of filing 9 Sep 1986

(30) Priority data

(31) 2447/85 (32) 16 Sep 1985 (33) AU

(71) Applicant
William Horace Kimpton,
P.O. Box 171, Tabubil, Western Province,
Papua New Guinea

(72) Inventor
William Horace Kimpton

(74) Agent and/or Address for Service
Wynne-Jones Laine & James, 22 Rodney Road,
Cheltenham, Glos GL50 1JJ

(51) INT CL⁴
G01F 17/00

(52) Domestic classification (Edition I)
G1M 17
U1S 1808 1892 G1M

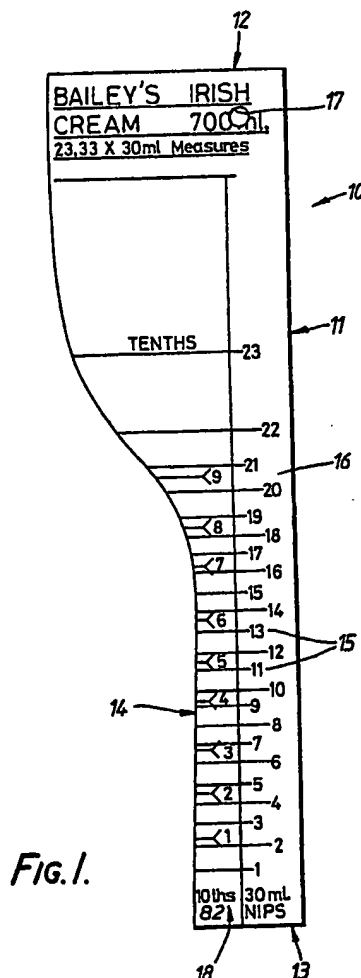
(56) Documents cited
GB 0962836 GB 0812717
GB 0894293

(58) Field of search
G1M
G1H
G1X
Selected US specifications from IPC sub-classes G01B
G01F

(54) Bottle measuring device

(57) A device for measuring the contents of a bottle is a sheet (10) of plastics or card with a profiled edge (14) shaped to fit closely against the exterior of a bottle. Calibrations (15) along this edge provide an immediate read-out for the amount left in the bottle. One side of the tool may be calibrated for the bottle in the normal upright position and the other side for the bottle inverted and fitted with an "optic" dispenser. The profiled edge (14) matches a particular bottle, and a set of devices can be provided to match a variety of bottles stocked, e.g. by a publican.

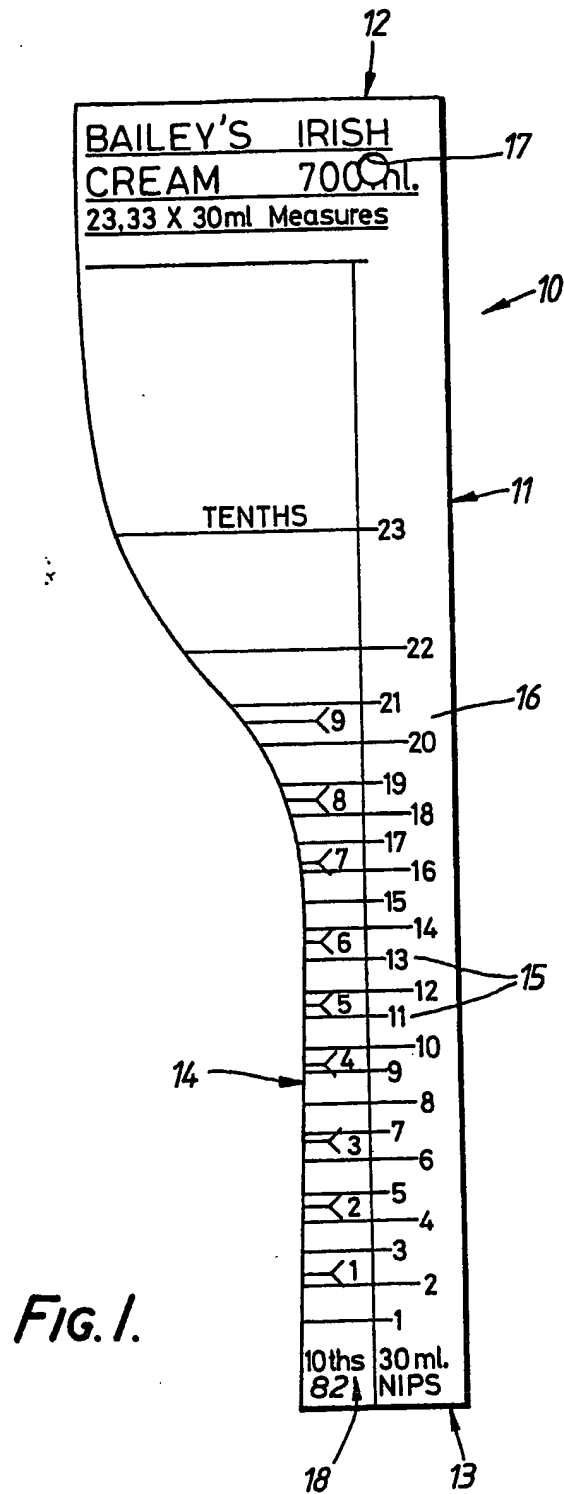
BOTH SIDES
SHAPED



Best Available Copy

GB 2 180 648 A

The drawing(s) originally filed was (were) informal and the print here reproduced is taken from a later filed formal copy.



SPECIFICATION

Bottle measuring tools

- 5 This invention relates to bottle measuring tools.
It is difficult for a publican to quickly assess the contents of an opened bottle of spirits, liqueurs, wines or the like. This is problem both for stocktaking and for assessing cash flow.
- 10 It is an object of the present invention to provide a simple tool to measure the contents of a bottle.
Other objects and advantages of the present invention will become apparent from the following description.
- 15 In a broad aspect, the present invention resides in a measuring device for use in determining the contents of a bottle comprising a profiled edge conforming to the external profile of the bottle to which the device is to be applied in use so as to engage the edge against the bottle around the external profile thereof, extending from at least a position adjacent the level in the bottle when filled and a position adjacent the lower reaches of the level when the bottle is near empty, the profiled edge being calibrated
- 25 therealong with a scale or indicia to indicate the contents of the bottle.
Preferably, the body is substantially planar and is formed of plastics, printed card, or other suitable material with a profile on one side edge corresponding to the profile of the bottle.
- 30 In use the bottom of the board might be aligned with the bottom of the bottle to enable the volume of the contents to be measured.
The calibration marks or indicia may indicate the
- 35 number of fluid ounces, millilitres or e.g. 30 ml measures remaining in the bottle or any other dispensed amounts dependent on the custom of particular regions. Markings may be provided on both sides of the body, one side being used when the bottle is up-right on a shelf, the other side when the bottle is inverted e.g. for use with an "optic dispenser" or separate tools might be provided in respect of these two separate modes of use.
- 40 To enable the invention to be fully understood, a preferred embodiment will now be described with reference to the accompanying drawing which shows a front view of a measuring tool for measuring the number of 30 ml measures in a bottle of "Bailey's Irish Cream" (trade mark).
- 45 The tool 10 may be formed of a thin sheet of plastics materials, a printed card etc., with a vertical side edge 11 and a horizontal top edge 12. The horizontal bottom edge 13 may have a flange of increased thickness to support the tool on a shelf as a datum. The
- 50 side 14 of the tool may also have a flange profiled to match the profile of a bottle of "Bailey's Irish Cream" (trade mark). The tool might be constructed using 250 gram 'ivory' art board, laminated on both sides with 175 micron clear plastic film. The art board
- 55 is printed, laminated and cut to shape.
Calibration markings 15 are provided on the body 16 of the tool to indicate the number of 30 ml measures in the bottle, tenths, or other volumes as required. As indicated, a 700 ml bottle contains 23 1/3 x
- 60 30 ml measures.

In Figure 1, a second scale 18 is provided to measure off 'tenths' along the 30 ml nips in case a measurement of that nature is required.

- 70 In use, the bottle and the tool are placed side-by-side on a shelf or counter and the level of liquid in the bottle opposite in calibration marking 15 will indicate e.g. 11 x 30 ml measures remaining in the bottle.

- 75 For use with e.g. spirits bottles, the other side of the body can be marked to indicate the measures remaining in a bottle which is inverted, for use with an "optic" dispenser, without requiring removal of the bottle from its holder. Alternatively, a separate tool may be provided for this application.

BOTH SIDES
PROVIDED

- 80 It will be readily apparent to the skilled addressee that different tools will be required for different shaped bottles. Typically, a kit for bar management might comprises over one hundred tools each stacked in order of use so as to enable a quick stock take.

PLURALITY

- 85 The tools can be easily washed or wiped after use and may be kept on a ring etc., which passes through a hole 17 in the body so as to retain them in "bar shelf order" for fast and convenient use.

- 90 While the invention is simple, it enables a publican or bar manager to quickly assess the volume of alcoholic beverages to hand, the rate of consumption (e.g. and the cash flow) by checking the levels at the end of a trading period. The usages may then be expressed in cash and compared with the actual cash received for the use of those spirits and liqueurs.

Various changes and modifications may be made to the embodiment described without departing from the present invention.

100 CLAIMS

1. A measuring device for use in determining the contents of a bottle comprising a profiled edge conforming to the external profile of the bottle to which the device is to be applied in use so as to engage the edge against the bottle around the external profile thereof, extending from at least a position adjacent the level in the bottle when filled and a position adjacent the lower reaches of the level when the bottle is near empty, the profiled edge being calibrated therealong with a scale or indicia to indicate the contents of the bottle.
2. A measuring device as claimed in Claim 1 wherein:
- 105 the profiled edge is provided with two scales so as to indicate the contents of the bottle in either of two orientations.
3. A measuring device as claimed in either one of Claims 1 or 2 wherein;
- 115 the measuring device is a plate like body with an edge thereof contoured to provide the profiled edge.
4. A measuring device as claimed in any one of the preceding claims wherein;
- 120 the measuring device is provided with an end surface to be engaged with a base upon which the bottle might be stood, the end surface being orientated such that when the end surface is so engaged with said box, the profiled edge may be engaged against the bottle around the external surface thereof.
- 125 5. A method for measuring the contents of a
- 130

bottle comprising the steps of placing a measuring device having a calibrated profiled edge against the bottle around the external profile thereof in an axial direction and reading the level of fluid or other material in the bottle against the calibrations.

5 6. A measuring device substantially as hereinbefore described with reference to the accompanying drawing.

7. A method for measuring the contents of a
10 bottle substantially as hereinbefore described.

Printed for Her Majesty's Stationery Office by
Croydon Printing Company (UK) Ltd, D8817358.
Published by The Patent Office, 25 Southampton Buildings, London, WC2A 1AY,
from which copies may be obtained.

DERWENT-ACC-NO: 1987-088562

DERWENT-WEEK: 198713

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Bottle content measuring appts. e.g. for publican - has
calibrations along its edges one side for bottle in
upright position and other for inverted position

INVENTOR: KIMPTON, W H

PATENT-ASSIGNEE: KIMPTON W H[KIMPI]

PRIORITY-DATA: 1985AU-0002447 (September 16, 1985)

PATENT-FAMILY: PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2180648 A	April 1, 1987	N/A	000	N/A
AU 8661519 A	March 19, 1987	N/A	000	N/A
GB 2180648 B	August 23, 1989	N/A	000	N/A

APPLICATION-DATA: PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
GB 2180648A	N/A	1986GB-0021685	September 9, 1986

INT-CL (IPC): G01F017/00, G01F023/00

ABSTRACTED-PUB-NO: GB 2180648A

BASIC-ABSTRACT:

The measuring device comprises a profiled edge conforming to the external profile of the bottle to which the device is to be applied in use. This engages the edge against the bottle around the external profile of it extending from at least a position adjacent the level in the bottle when filled and a position adjacent the lower reaches of the level when the bottle is near empty. The profiled edge is calibrated along it with a scale or indicia to indicate the contents of the bottle.

The profiled edge is provided with two scales so as to indicate the contents of the bottle in either of two orientations. The measuring device is a plate like body with an edge of it contoured to provide the profiled edge.

USE - Stocktaking and assessing cash flow.

ABSTRACTED-PUB-NO: GB 2180648B

EQUIVALENT-ABSTRACTS:

The measuring device comprises a profiled edge conforming to the external profile of the bottle to which the device is to be applied in use. This engages the edge against the bottle around the external profile of it extending from at least a position adjacent the level in the bottle when filled and a position adjacent the lower reaches of the level when the bottle is near empty. The profiled edge is calibrated along it with a scale or indicia to indicate the contents of the bottle.

The profiled edge is provided with two scales so as to indicate the contents of the bottle in either of two orientations. The measuring device is a plate like body with an edge of it contoured to provide the profiled edge.

USE - Stocktaking and assessing cash flow.

CHOSEN-DRAWING: Dwg.1/1 Dwg.1/1

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☒ **FADED TEXT OR DRAWING**
- ☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.